

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000241

A. CLASSIFICATION OF SUBJECT MATTER		
Int. Cl. <sup>7</sup> : A61K 38/43, A23K 1/165		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
DWPI, PUBMED, AGRICOLA: Nitrification, urease, inhibit, ruminants, animals		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2002/019809 A, (QUIN, BF), 14 March 2002 Whole document	1-36
X	LUDDEN, PA et al. Influence of the novel urease inhibitor N-(n-butyl) thiophosphoric triamide on ruminant nitrogen metabolism: I. In vitro urea kinetics and substrate digestion. J. Anim. Sci., January 2000, vol. 78(1), pages 181-187 Abstract, page 182, col. 1, lines 2-9	32, 33 and 36
X	LUDDEN, PA et al. Influence of the novel urease inhibitor N-(n-butyl) thiophosphoric triamide on ruminant nitrogen metabolism: II. Ruminant nitrogen metabolism, diet digestibility, and nitrogen balance in lambs. J. Anim. Sci., January 2000, vol. 78(1), pages 188-198 Abstract, page 188, col. 2, lines 1-6	32, 33 and 36
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 3 December 2004		Date of mailing of the international search report 16 DEC 2004
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  M. Ong Telephone No : (02) 6283 2491

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	VAREL, VH et al. Conservation of nitrogen in cattle feedlot waste with urease inhibitors. J. Anim. Sci., May 1999, vol. 77(5), pages 1162-1168 Abstract, col. 2, last paragraph	32, 33 and 36
X	WHITELAW, FG et al. Urease (EC 3.5.1.5) inhibition in the sheep rumen and its effect on urea and nitrogen metabolism. Br. J. Nutr., September 1991, vol. 66(2), pages 209-225 Abstract	32, 33 and 36
X	BRENT, BE et al. In vitro inhibition of rumen urease with acetohydroxamic acid. J. Anim. Sci., April 1971, vol. 32(4), pages 794-798 Abstract	32, 33 and 36
X	MACKIE, RI et al., Biochemical identification and biological origin of key odor components in livestock waste. J. Anim. Sci., May 1998, vol. 76(5), pages 1331-1342 Page 1339, col. 2, last paragraph	32, 33 and 36

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000241

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
WO	02/19809	US	2004011296	EP	1318719	AU	200190378
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							

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